

- 32. An electric sanitary water cooler, supplied with cups and drinking water.
  - 33. 2 concrete curing boxes, meeting the requirements of AASHTO T 23 Section 9; shall be Curamold or equal.
  - 34. 6 heavy duty 9.46 liter plastic pails.
  - 35. 1 quick-check air indicator kit meeting the requirements of AASHTO T 199.
  - 36. Concrete cylinder molds with plastic covers, 150 millimeters in diameter by 300 millimeters high, single use, meeting the requirements of AASHTO M 205 shall be supplied (4 cylinders per 40 cubic meters or fraction thereof). Cylinders shall be approved for use by the Research and Materials Section. Three molds shall be submitted for approval prior to start of the project.
  - 37. One copy of the Standard Specifications for Transportation Materials and Methods of Sampling and Testing – Part I and Part II Methods of Sampling and Testing – latest edition, and one copy of the latest interim AASHTO Specifications. Both are published by the American Association of State Highway and Transportation Officials, 444 North Capital Street, N.W., Suite 225, Washington, D.C. 20001.
  - 38. One shovel and one 0.06 cubic meter wheelbarrow for transporting samples.
- Catalogs for the above equipment may be seen at the Department’s Research and Materials Laboratory in South Boston.

**COMPENSATION**

**740.81 Basis of Payment.**

Payment for work under these items will be at the respective contract unit bid price for Engineer’s Field Office and Equipment (Type A), Engineer’s Field Office and Equipment (Type B), Engineer’s Field Office and Equipment (Type C) and Engineer’s Field Office and Equipment (Type D) and Materials Laboratory Building and Equipment.

Payment as described above shall be compensation for all services (heat, gas, light, water, sanitary, etc.), except monthly telephone charges; for all labor, material, fencing, surfacing, equipment service (including general inside cleaning at least once each week) and incidentals necessary to provide, equip, maintain, insure, remove and dispose of the buildings and clean the site as specified and directed. The contract unit bid price will prevail for buildings built or furnished as described, for equivalent trailer space, or office space rented in existing buildings, when such substitution has been approved.

**740.82 Payment Items.**

740.	Engineer’s Field Office and Equipment (Type A)	Month
741.	Engineer’s Field Office and Equipment (Type B)	Month
742.	Engineer’s Field Office and Equipment (Type C)	Month
743.	Engineer’s Field Office and Equipment (Type D)	Month
744.	Materials Laboratory and Equipment	Month
999.740	Telephone Charges	Dollars

**SECTION 746**

**TRANSPORTATION VEHICLE**

**DESCRIPTION**

**746.20 General.**

This item consists of furnishing and maintaining current model vehicles equipped with strobe lights for the use of Department personnel assigned to the project.

**MATERIALS**

**746.40 General.**

The vehicle may be any medium size air conditioned six cylinder four door sedan, van, or other type vehicle capable of transporting four persons in comfort and protected against the elements.

The vehicle will be registered in Massachusetts and it shall be the Contractor's responsibility to pay all fees, insurance charges, fuel, lubricants and maintenance costs necessary to provide a legally operable vehicle acceptable to the Engineer. The vehicle will be made available from 15 days after receipt of the executed contract to 45 days after completion of the project unless released earlier by the Engineer.

**746.41 Office Van.**

The van shall have a minimum wheel base of 3.1 meters and be modeled as follows:

1. A 19 millimeter plywood overflooring to which the furniture is securely bolted.
2. A 1.2 meter sliding door with window on the side as well as rear doors with windows.
3. Secure locking on all doors.
4. An independent switch for an overhead dome light.
5. The van shall be furnished with a knee hole desk and a two drawer file cabinet which are fastened down, a 19 millimeter plywood table with formica top and a swivel chair without casters that is movable.
6. Safety equipment shall be furnished with the Van and shall remain the property of the Contractor after completion of the project, safety helmets and safety vests for all Department Construction personnel assigned to the project. The safety equipment will not carry any marking such as the name of the Contractor.

**CONSTRUCTION METHODS**

**746.60 General.**

The vehicle will be for the exclusive use of the Resident Engineer and his/her assistants to accommodate their *official* transportation requirements on and off the project site including portal to portal travel between the project site and the assigned personnel's residence. The vehicle shall not be utilized for non-official or personal use by an individual while it is assigned to this project.

The vehicle shall be used for the transportation of materials and/or samples for testing and also for transportation to properly supervise the coordination of Traffic Police and Safety Functions.

The vehicle shall be maintained in a good state of repair at all times and serviced at the regular intervals recommended by the vehicle manufacturer. Work schedules of the Engineer and/or his/her assistants will be arranged so that the vehicle will be available for regular maintenance at the scheduled times.

Public Liability and Property Damage Liability Insurance shall be provided throughout the term of this project to the minimum limits established below.

Type	Minimum	Maximum
Public Liability	\$250,000/person	\$500,000/accident
Property Damage Liability	\$50,000/accident	\$200,000/accident

Said insurance shall be maintained in full force and effect during the life of the contract and shall protect the Resident Engineer, his/her assistants or any other authorized State Driver for personal injury and wrongful death and for damages to property arising in any manner from their negligence or wrongful acts or failures to act. Such insurance against legal liability shall indemnify and save harmless the Commonwealth and any or all of the officers, agents and employees thereof resulting out of or in consequence of the acts, or failures to act, on the part of the Commonwealth.

**COMPENSATION**

**746.80 Method of Measurement.**

Transportation shall be measured by the month per vehicle and shall be the actual number of months each vehicle is required and available to the Resident Engineer and/or his/her assistants or representatives.

**746.81 Basis of Payment.**

Transportation Vehicles will be paid for at the contract unit price bid per month for each vehicle, which price and

payment shall be full compensation for the vehicle including all fees, insurance costs, maintenance costs, fuel and lubrication costs, repair costs and all other incidental expenses necessary to provide a legally operable vehicle to the satisfaction of the Engineer.

**746.82 Payment Items.**

746.-*	Transportation Vehicle No. ____	Month
746.6	Transportation Office Van	Month

\*Item number will differentiate to indicate number of transportation vehicle.

**SECTION 748**

**MOBILIZATION**

**DESCRIPTION**

**748.20 General.**

This item shall consist of preparatory work and operations including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, for the establishment of all contractor's field offices, buildings, and other facilities necessary for work on the project and all other work and operations which must be performed or for costs which must be incurred prior to beginning work.

**CONSTRUCTION METHODS**

**748.60 General.**

The work required to provide the above facilities and services for mobilization shall be done in a safe and workmanlike manner and shall conform with any pertinent local or state law, regulation or code. Good housekeeping consistent with safety shall be maintained.

**COMPENSATION**

**748.80 Method of Measurement.**

Payment for mobilization will be made on a lump sum basis.

**748.81 Basis of Payment.**

1. The first payment of one third of the lump sum price for Mobilization or 1 percent of the total bid price, whichever is less, will be made on the first estimate.
2. The second payment of one third of the lump sum price for Mobilization or 1 percent of the total bid price, whichever is less, will be made following the completion of 5 percent of the total Contract price.
3. The third payment of one third of the lump sum price for Mobilization or 1 percent of the total bid price, whichever is less, will be made following the completion of 10 percent of the total Contract price.
4. Upon completion of all the work on the project, payment of any amount bid for Mobilization in excess of the total amount previously paid, will be paid by the Department.

**748.82 Payment Items.**

748.	Mobilization	Lump Sum
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